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7.



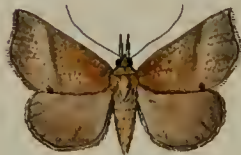
12.



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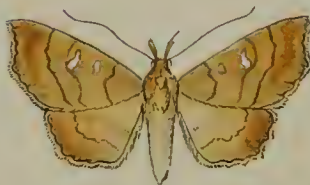
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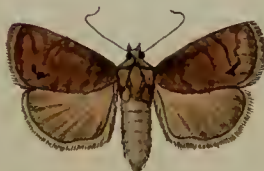
10



5.



16.



11.



6.



17.

5. On the Lepidoptera of Bombay and the Deccan.—Part
III. HETEROCERA (*continued*). By Lt.-Col. C. SWINHOE,
F.L.S., F.Z.S.

[Continued from p. 307.]

[Received April 28, 1885.]

(Plates XXVII., XXVIII.)

NOCTUES.

BOMBICOIDÆ.

1. KARANA DECORATA.

Karana decorata, Moore, Desc. Lep. Col. Atkinson, ii. p. 107
(1882).

Poona, October ; Sattara, June.

LEUCANIIDÆ.

2. LEUCANIA EXTRANEA.

Leucania extranea, Guénée, Noct. i. 77, 104.

Poona, November and December ; Bombay, February.

3. LEUCANIA LOREYI.

Leucania loreyi, Duponchel, Hist. Nat. Lep. France, iv. 81,
pl. 105. f. 7.

Poona, November ; Bombay, February.

4. LEUCANIA POLEMUSA, n. sp. (Plate XXVII. fig. 1.)

Poona, September and October ; Bombay, July.

Allied to *L. decisissima*, Walker, but of altogether a different colour. Pale greyish-fawn colour, shining. Abdomen very pale greyish. Fore wings with a brownish stripe, which extends from base to the outer margin, containing a small silvery streak turned up at the end of the cell ; numerous blackish longitudinal lines covering the whole wing, with the exception of a small space just below the cell. A discal row of black points, from near the apex to the hinder margin ; absent in some specimens. Hind wings glistening white.

Expanse of wings $1\frac{2}{10}$ to $1\frac{4}{10}$ inch.

5. LEUCANIA SUBSIGNATA.

Leucania subsignata, Moore, P. Z. S. 1881, p. 336.

Bombay.

6. SESAMIA INFERENS.

Leucania inferens, Walker, ix. 105.

Bombay, September and October.

7. AXYLIA RENALIS.

Axylia renalis, Moore, P. Z. S. 1881, p. 341.

Poona, July, September, and October.

8. *AXYLIA FURTIVA*, n. sp.

Poona, October and December.

Thorax and fore wings shining chocolate-brown, with a longitudinal fascia below the cell and many longitudinal streaks pale pinkish; orbicular and reniform spots very prominent, pale pinkish, interlined with brown, the latter very large; outer border with black points. Hind wings smoky brown, paler towards the base, glistening; fringe pinkish luteous; abdomen whitish.

Expanse of wings $\frac{9}{10}$ inch.*DISCORDIA*, gen. nov.

Wings long: fore wing narrow; costa almost straight, exterior margin obliquely convex; posterior margin convex; cell extending three fifths the length; first and second subcostals from close to end of cell, third trifid; radials from end of the discocellular; middle median from close to end of cell, lower at one fifth; submedian slightly recurved. Hind wing long, narrow, exterior margin very obliquely convex; cell half the length; two subcostals from end of cell; upper costal running close to the costal for one third its length; discocellular bent inward before the middle, lower end long and outwardly oblique; radial from close to its lower end; middle median from close to end of cell, lower at one third; body rather stout; palpi minute, pilose; antennæ filiform; legs rather stout, squamous.

9. *DISCORDIA EVULSA*, n. sp. (Plate XXVII. fig. 2.)

Poona, November.

Antennæ, palpi, head, and body pale grey. Fore wings pinkish grey, with grey irrorations which form dark shades on the basal half of the costa and of the hinder margin; a grey band from the centre of the hinder margin to the costa, near the apex, outwardly dentated; marginal line brown; fringe interlined—white, brown, and white. Hind wings shining white.

Expanse of wings $\frac{8}{10}$ inch.

HELIOTHIDÆ.

10. *HELIOTHIS ARMIGERA*.*Noctua armigera*, Hübner, Noct. pl. 79. f. 370.

Bombay, August and September.

11. *HELIOTHIS RUBESCENS*.*Thalpophila rubescens*, Walker, xv. 1681.

Bombay, October.

12. *HELIOTHIS PELTIGERA*.*Noctua peltigera*, Denis, Wien. Verz. 89. 2.

Poona, April to June.

13. *HELIOTHIS JUNCEA*, n. sp. (Plate XXVII. fig. 4.)

Bombay.

Thorax and fore wings of a dull red colour; front of thorax and

head of a brighter red; reniform stigma large, white, encircled with black; two black marks running in from the costa, one before and the other beyond the middle, like the commencement of latitudinal wavy lines; a discal double wavy blackish line, and an indistinct marginal blackish line; hind wings reddish grey, with a broad marginal uninterrupted blackish-brown band; fringe reddish grey; abdomen reddish grey.

Expanse of wings $1\frac{3}{10}$ inch.

14. *ANTHÆCIA SWINHOEI*.

Anthæcia swinhoei, Butler, P. Z. S. 1883, p. 162.

Poona, October to December.

15. *PRADATTA DECORATA*.

Pradatta decorata, Moore, P. Z. S. 1881, p. 365.

Poona, October.

16. *PRADATTA BIVITTATA*.

Leucania bivittata, Walker, ix. 108.

Bombay, September.

17. *ADISURA LEUCANIOIDES*.

Adisura leucanioides, Moore, P. Z. S. 1881, p. 368.

Poona, September.

18. *ADISURA MARGINALIS*.

Adisura marginalis, Moore, P. Z. S. 1881, p. 368.

Bombay.

19. *ADISURA UNCTA*, n. sp. (Plate XXVII. fig. 12.)

Bombay, October.

Allied to *A. leucanioides*. Fore wings yellowish, suffused all over with pink, leaving the ground colour showing through in one or two places; some dark pink lines between the veins, in the disk; fringe dark pink, edged with silvery white: hind wings pinkish grey, paler towards the base, shining; fringe luteous.

Expanse of wings 1 inch.

20. *CURUBASA CALAMARIA*.

Curubasa calamaria, Moore, P. Z. S. 1881, p. 367.

Bombay, October.

GLOTTULIDÆ.

21. *CHASMINA CYGNUS*.

Chasmina cygnus, Walker, ix. 147.

Bombay, September.

22. POLYTELA GLORIOSÆ.

Bombyx gloriosæ, Fabr. Sp. Ins. ii. 205, 150.

Poona, July; Bombay, July.

Larva feed on *Polianthus tuberosa*: colour very dark velvety maroon, with cream-coloured spots; size $1\frac{1}{2}$ inch. They burrow and eat the roots of the plant as well as the leaves. Larval stage 24 days; a moth emerged occasionally, from after a few days, right up to the March following; larvæ burrow into hard soil when turning and form small chambers.

APAMIIDÆ.

23. PRODENIA RETINA.

Neuria retina, Frivaldsky, Herr.-Schäff. Eur. Schmett. ii. p. 292, Noct. pl. 29. f. 145.

Poona, July to September; Bombay, July to November.

24. PRODENIA GLAUCISTRIGA.

Prodenia glaucistriga, Walker, ix. 197.

Poona, June; Bombay, July and August.

25. LAPHYGMA INFECTA.

Prodenia infecta, Walker, ix. p. 196.

Prodenia venustula, Walker, xxxii. p. 654.

Poona, July, October, and November; Bombay, August to December.

26. LAPHYGMA EXIGUA.

Noctua exigua, Hübner, Samml. eur. Schmett. Noct. f. 362.

Poona, September; Bombay, December.

27. APAMEA VIRIATA, n. sp.

Poona, July.

Antennæ and palpi brown; head and body brown, marked with pale pinkish grey. Fore wings dark brown; costa with pinkish-grey spots; subbasal, antemedial, and postmedial lines deep black, lunular, the two former edged inwardly, and the last edged outwardly, with pinkish grey; nearly the whole space between the postmedial line and the margin more or less of the same colour, forming a broad band deeply denticulated in its centre outwardly, with two teeth running into the dark-brown colour of the wing on the outer margin; marginal spots purplish grey; fringe brown, speckled with the same colour; orbicular and reniform marks large, indicated by large rings of deep black, the latter slightly excavated outwardly; hind wing whitish, with a deep costal and marginal suffused greyish border; fringe pinkish grey, edged with white.

Closely allied to *A. latifasciata*, Moore, P. Z. S. 1881, p. 345.

Expanse of wings $1\frac{5}{10}$ inch.

28. *APAMEA MUCRONATA*.

Apamea mucronata, Moore, P. Z. S. 1881, p. 345, pl. 38. f. 8.
Poona, October.

29. *ILATTIA CEPHUSALIS*.

Ilattia cephusalis, Walker, xvi. p. 209.
Poona, September to November; Bombay, July to November.

30. *SASUNAGA TENEBROSA*.

Hadena tenebrosa, Moore, P. Z. S. 1867, p. 59; id. 1881, p. 343.
Poona.

31. *HYDRILLA DENTICULOSA*.

Miana denticulosa, Walker, xxxii. p. 676.
Poona, September and October; Bombay, July.

32. *MAMESTRA DOLOROSA*.

Mamestra dolorosa, Walker, xxxii. p. 667.
Sattara, Poona, November.

33. *SPODOPTERA CILIUM*.

Spodoptera cilium, Guénée, Noct. i. pp. 156, 249.
Poona, September and December; Bombay, December.

34. *CARADRINA BREMUSA*, n. sp.

Poona.

Head, thorax, and fore wings grey, dotted with black atoms; eyes black; first joint of palpi brown, last two joints white. Fore wings with three black spots on the costa, the first two being the commencement of a subbasal and antemedial outwardly waved interrupted black line, a postmedial brown interrupted waved line or band, then a straight row of deep black points, and the rest of the outer portion of the wing so thickly covered with brown atoms as to form three bands close together, making the outer third of the wing quite dark, marginal points black. Hind wings greyish white, darker towards the costa; apex and outer border brownish. Abdomen grey.

Expanse of wings $1\frac{1}{10}$ inch.

35. *CARADRINA INSIGNATA*.

Caradrina insignata, Walker, x. p. 295.
Poona, September.

36. *PEREGEA SERVA*.

Celena serva, Walker, xv. p. 1689.
Bombay, October.

37. *PEREGEA CENTRALIS*.

Peregea centralis, Walker, xi. p. 734.
Poona, September.

38. *PEREGEA SUPPLEX*, n. sp.

Poona, July ; Bombay, July.

Allied to *P. centralis*, Walker.

Reddish grey, shining ; redder and darker on the basal half ; basal, antemedial, postmedial, and submarginal slightly waved, single grey lines, indistinct ; reniform stigma whitish, distinct ; hind wings and abdomen grey.

Expanse of wings $1\frac{9}{10}$ inch.39. *RHIZOGRAMMA UNILINEA*, n. sp. (Plate XXVII. fig. 7.)

Poona.

Fore wings slaty grey, with a black band running below the cell, curving slightly downwards in its centre, and extending from the base to the outer border ; a dark grey diffused band on the hinder margin ; marginal line white, with black dots ; fringe grey. Hind wings pure white, greyish towards the costa and outer border. Body slaty grey.

Expanse of wings $1\frac{7}{10}$ inch.40. *OZARBA ITWARRA*, n. sp. (Plate XXVII. fig. 14.)

Poona, October.

Fore wings blackish brown ; costa with seven yellow spots ; sub-basal and antemedial lines nearly straight, double, black, edged with whitish ; a postmedial double white line, edged with black on the inner side, sharply bent inwardly to the costa, over the large well-defined reniform stigma, which is composed of two white lines, the inner one edged with black ; the orbicular is indistinct, and is almost effaced by the antemedial double line ; a submarginal single white line bent outwardly, just below its centre ; a marginal line of deep black connected lunules, edged on both sides with white. Hind wings dark brown, unmarked ; fringe of both wings long, interlined brown, white, and brown.

Expanse of wings $1\frac{9}{10}$ inch.41. *OZARBA MALLARBA*, n. sp. (Plate XXVII. fig. 3.)

Poona, December.

Fore wings pale reddish, covered with brown atoms ; orbicular and reniform stigmas deep black, distinct, the former the larger ; a central blackish shade, commencing from the orbicular and widening on the hinder margin ; inner line upright, slightly waved ; outer line zigzag, bent outwards, whitish ; submarginal line also whitish, nearly straight, marginal points black. Hind wings pale brown ; fringe pinkish white and brown.

Expanse of wings $1\frac{9}{10}$ inch.42. *OZARBA PUNCTIGERA*.*Ozarba punctigera*, Walker, xxxii. p. 635.

Sattara, June ; Poona, September and October ; Bombay, October.

NOCTUIDÆ.

43. AGROTIS CONSPURCATA.

Agrotis conspurcata, Walker, xxxii. p. 696.

Poona, October.

44. AGROTIS SEGETUM.

Phalena-Noctua segetis, Gml. ed. Syst. Nat. i. v. 2539, 1018.

Noctua segetum, Wien. Verz. lxxxi. p. 12, pl. i. figs. 3a, b.

Poona, December.

45. AGROTIS SUFFUSA.

Phalena-Noctua suffusa, Gml. ed. Syst. Nat. i. v. 2541, 1028.

Poona.

46. AGROTIS ARISTIFERA.

Agrotis aristifera, Guénée, Noct. i. pp. 266, 426.

Poona, December to March.

47. AGROTIS VANA, n. sp. (Plate XXVII. fig. 9.)

Sattara, June ; Poona, August and September.

Pale yellowish fawn-colour ; antennæ brown ; palpi with the first and last joints brown, last joint white-tipped ; eyes black ; thorax with a black band in front, and with a large square deep black patch in the centre of the prothorax. Fore wings with a deep black, much interrupted band from the base, gradually widening to the outer margin, which it would almost fully occupy except for the interruptions by which it is divided into five parts : the interruptions consist of whitish streaks, extending from along the median and subcostal veins, and another streak of the same colour, from the apex downwards, joining the median-vein streak on the second median branch, near its root ; hinder margin with a small deep black mark near the base ; marginal line white, inwardly edged with black ; fringe brown. Hind wings white, slightly shaded towards the outer margin.

Expanse of wings 1 to $1\frac{2}{10}$ inch.

48. GRAPHIPHORA C-NIGRUM.

Phalæna-Noctua c-nigrum, Linn. Faun. Succ. p. 1193.

Bombay, February.

49. GRAPHIPHORA COGNATA.

Graphiphora cognata, Moore, Desc. Lep. Col. Atkinson, ii. p. 119 (1882).

Poona, September and December.

50. OCHROPLEURA TRIANGULARIS.

Ochropleura triangularis, Moore, P. Z. S. 1867, p. 55.

Sattara, November.

HADENIDÆ.

51. HADENA INDISTANS.

Hadena indistans, Guénée, Noct. ii. pp. 87, 736.

Poona, October ; Bombay, October.

52. EUPLEXIA SEMIFASCIA.

Hadena semifascia, Walker, xxxiii. p. 737.

Sattara, November.

ACONTIIDÆ.

53. XANTHODES INNOCENS.

Xanthodes innocens, Walker, xv. p. 1752.

Bombay, February and October.

54. XANTHODES STRAMEN.

Xanthodes stramen, Guénée, Noct. ii. pp. 210, 976

Poona, July and September.

55. XANTHODES TRANSVERSA.

Xanthodes transversa, Guénée, Noct. ii. pp. 211, 978.

Poona, July ; Bombay, August, September, and October.

56. XANTHODES IMPARATA.

Xanthodes imparata, Walker, x. p. 467.

Bombay, July.

57. PITACOTA TERMINIGERA.

Felinia terminigera, Walker, xv. 1850.

Poona, July.

58. TARACHE POSTICA.

Calophasia postica, Walker, xxxiii. p. 764.

Poona, October.

59. CALOPHASIA UPSILON.

Calophasia upsilon, Walker, xxxiii. p. 763.

Poona, October.

60. ACONTIA BASIFERA.

Acontia basifera, Walker, xii. p. 793.

Poona, October.

61. ACONTIA COSTALIS.

Acontia costalis, Walker, xxxiii. p. 784.

Poona, October.

62. ACONTIA QUADRIPARTITA.

Acontia quadripartita, Walker, xxxiii. p. 786.

Poona, October.

63. *ACONTIA QUINTANA*, n. sp. (Plate XXVII. fig. 13.)

Poona, October and November.

Antennæ, palpi, head, and thorax blackish brown; abdomen white; wings silvery white. Fore wings with blackish bands and lines—one basal, with thin black spots on the margin, followed by a sinuous line; a broad median band, containing a deep black spot, margined with whitish, followed by two interrupted sinuous lines; an interrupted submarginal band; and a broken marginal band: hind wings unmarked.

Expanse of wings $\frac{8}{10}$ inch.

64. *ACONTIA SCANDA*.

Acontia scanda, Felder, Reise der Nov. pl. 108. f. 27.

Bombay, September.

65. *ACONTIA CROCATI*.

Acontia crocata, Guénée, Noct. ii. pp. 218, 989.

Poona, October; Bombay, July, August, and September; very plentiful in Bombay in July.

66. *ACONTIA FIRINA*, n. sp. (Plate XXVII. fig. 5.)

Poona; Bombay, November.

Antennæ, palpi, head, and thorax reddish brown; abdomen whitish. Fore wings pinkish yellow, with black marks along the costa, and black dots, mostly arranged in squares of four dots to each, along the upper part of the wing above the median vein; hinder margin broadly brown, a brownish thin band from the centre of the hinder margin to the outer margin near the apex, a large square black spot in the centre of this band, a black line from the outer third of the hinder margin, running upwards towards the costa, across the band, joining three squares of black dots that come down from the costa; the entire space between the band and the hinder angle suffused with brown; marginal points black; fringe pinkish brown, black towards the hinder angle. Hind wings pale whitish testaceous, with a broad diffused, brownish, marginal border; marginal line brown; fringe pale pinkish brown.

Expanse of wings 1 inch.

67. *ACONTIA EXCISA*.

Acontia excisa, Walker, MS. Brit. Mus. Coll.

Poona, October.

Antennæ, head, thorax, abdomen, and fore wings brownish black; palpi with the first joint reddish brown, second black, last joint very minute and pure white; abdomen with a white band at the base. Fore wings with broad white antemedial and marginal bands, the former sometimes tinged with reddish, the latter marked with black at the apex, and in the centre two deep black incomplete sinuous medial lines and a white sinuous double outer line, clouded in some specimens, but always distinct on the costa; reniform mark represented by two deep black spots; first white band with a line of black

spots running through it; marginal points black, distinct. Hind wings grey; fringe whitish.

Expanse of wings $\frac{6}{10}$ inch.

68. *ACONTIA OPELLA*, n. sp. (Plate XXVII. fig. 16.)

Poona, October.

Antennæ brown; head brown, with a white band on each side in front of the eyes; body brown. Fore wings with the basal third brown, margined with a whitish line, then a black band, followed by a white line and a brown line against each other, opening out and passing to the costa, one on each side of the reniform stigma, which is represented by a brown streak on a whitish-grey ground; these marks are followed by a uniform grey band, a brown band which expands on the costa, a reddish-grey line, which also expands on the costa, filling up the apical space; a thick blackish-brown band on the lower two thirds of the outer margin, margined inwardly with deep black; a deep black marginal line; fringe long, greyish-brown, with yellowish markings. Hind wings pale soot-colour, with four or five whitish spots at the apex.

Expanse of wings $\frac{8}{10}$ inch.

69. *ACONTIA PULLA*, n. sp. (Plate XXVII. fig. 15.)

Poona, October and November.

Body and fore wings pale reddish-brown; fore wings with the central portion suffused with dark brown, across which are two sinuous lines, one antemedial, the other postmedial; costa and apex with brown marks; marginal line reddish; marginal points brown; fringe pale reddish. Hind wings soot-brown; fringe pale reddish.

Expanse of wings $\frac{9}{10}$ inch.

70. *MARIMATHA PURA*, n. sp. (Plate XXVIII. fig. 16.)

Poona, October.

Greyish milky-white; head and thorax with some deep black speckles, a reddish patch at apex of fore wing, otherwise quite unmarked; fringe reddish. It is, however, a variable species. In one example there are no speckles on the head and thorax; in another there are some deep black speckles in a cluster in the centre of the fore wing, and in another the general colour is slightly reddish.

Expanse of wings $\frac{9}{10}$ inch.

71. *PROTHEODES VEPRECOLA*, n. sp.

Poona, September and October. Very plentiful.

Antennæ, palpi, head, thorax, and fore wings brown; abdomen and hind wing whitish testaceous; fore wing with orbicular and reniform marks whitish, rather indistinct; basal, antemedial, postmedial, and submarginal whitish, very indistinct waved lines, often obsolete; some brown flecks on the wing, here and there; fringe blackish; hind wings unmarked; underside whitish shining, unmarked.

Expanse of wings $\frac{8}{10}$ inch.

ANTHOPHILIDÆ.

72. THALPOCHARES RIVULA.

Thalpocharis rivula, Moore, Desc. Lep. Col. Atkinson, ii. p. 140 (1882).

Bombay.

73. THALPOCHARES UBEROSA, n. sp.

Poona, September and October. In great abundance during the latter month.

Iron-grey; fore wing with antemedial, postmedial, and submarginal double white lines, the second branching off in its double state, encircling the reniform stigma, and meeting again on the costa; marginal line black: hind wing with a black marginal line, otherwise unmarked; underside of a dark uniform iron-grey.

This insect varies somewhat in its coloration, some of the specimens in my collection having a reddish tinge.

Expanse of wings $\frac{7}{10}$ inch.

74. HICCODA DOSAROIDES.

Hiccoda dosaroides, Moore, Desc. Lep. Coll. Atkinson, p. 135 (1882).

Poona, June.

ERIOPIDÆ.

75. CALLOPISTRIA RECURVATA.

Callopiستria recurvata, Moore, Desc. Lep. Col. Atkinson, ii. p. 144 (1882).

Bombay, September and November.

EURHIPIDÆ.

76. PENICILLARIA JOCOSATRIX.

Penicillaria jocosatrix, Guénée, Noct. ii. pp. 304, 1112.

Poona, September; Bombay, July.

Larvæ feed on *Mangifera indica*, found in groups of five or six on the underside of the leaf; length $1\frac{1}{4}$ inch; colour watery green; pupa like the pupa of *Polytela gloriosæ*, but rather smaller.

77. EUTELIA FAVILLATRIX.

Eutelia favillatrix, Walker, xv. p. 1778.

Bombay, September.

78. TARGALLA DELATRIX.

Penicillaria delatrix, Guénée, Noct. ii. pp. 304, 1112.

Poona.

PLUSIDÆ.

79. PLUSIA VERTICILLATA.

Plusia verticillata, Guénée, Noct. ii. pp. 344, 1168.

Poona, October; Bombay, July to November.

80. *PLUSIA SIGNATA*.*Noctua signata*, Fabr. Ent. Syst. iii. 2, pp. 81, 234.

Poona, November.

81. *PLUSIA EXTRAHENS*.*Plusia extrahens*, Walker, xii. p. 929.

Poona, March ; Bombay, July.

82. *PLUSIA OBTUSISIGNA*.*Plusia obtusisigna*, Walker, xii. p. 930.

Poona, October.

83. *PLUSIA AGRAMMA*.*Plusia agramma*, Guénée, Noct. iii. pp. 327, 1136.

Bombay, September.

84. *WESTERMANNIA SUPERBA*.*Westermannia superba*, Hübner, Samml. exot. Schmett. ii. pp. 23, 162, figs. 323, 324.

Poona, October ; Bombay, October.

85. *PLUSIODONTA CONDUCEUS*.*Deva conduceus*, Walker, xii. p. 963.

Bombay.

HYBLÆIDÆ.

86. *HYBLÆA PUERA*.*Phalæna-Noctua puera*, Cram. Pap. Exot. ii. p. 10, pl. 103. figs. D, E.

Poona, July and September ; Bombay, August and September.

I have a variety taken at Poona in July with a broad grey fascia across the disk, joining a narrower grey fascia from the hinder margin near the base.

GONOPTERIDÆ.

87. *GONITIS MESOGONA*.*Gonitis mesogona*, Walker, xiii. p. 1002.

Bombay, September.

88. *GONITIS INVOLUTA*.*Gonitis involuta*, Walker, xiii. p. 1003.

Bombay, September to December.

89. *GONITIS METAXANTHA*.*Gonitis metaxantha*, Walker, xiii. p. 1005.

Poona, May.

90. *GONITIS ALBITIBIA*.*Gonitis albitibia*, Walker, xiii. p. 1001.

Poona, December.

91. COSMOPHILA XANTHINDYMA.

♂ *Cosmophila xanthindyma*, Boisd. Faun. Ent. Mad. Bourb. et Maur. Lep. p. 94, pl. 13. fig. 7 (1883).

♀ *Cosmophila indica*, Guénée, Noct. ii. pp. 396, 1256 (1852).

Poona ; Bombay, October and November.

TOXOCAMPIDÆ.

92. TOXOCAMPA MOOLLA, n. sp. (Plate XXVII. fig. 10.)

Poona, October.

Palpi pinkish ; antennæ, head, thorax, and fore wings pale pinkish brown ; abdomen grey ; thorax covered with brown atoms, and with a deep black band in front. Fore wings covered with brown dots, thicker in some parts than in others, forming a short antemedial band, commencing from a deep black longitudinal streak near the hinder border ; a postmedial and a discal band, all very diffuse, but plainly visible ; on the outside of the discal band is a brown, double, nearly straight line, followed by a row of black spots of various sizes, those in the centre being much the smallest ; marginal points black. Hind wings dark smoky grey, with a pale indistinct discal band.

Expanse of wings $1\frac{8}{10}$ inch.

POLYDESMIDÆ.

93. PANDESMMA QUENAVADI.

Pandesma quenavadi, Guénée, Noct. ii. pp. 438, 1310.

Bombay, July to November.

94. PANDESMMA ANYSA.

Pandesma anysa, Guénée, Noct. ii. pp. 439, 1311.

Cerbia fugitiva, Walker, xiv. p. 1365.

Bombay, August to October.

95. POLYDESMMA BOARMOIDES.

Polydesma boarmoides, Guénée, ii. pp. 441, 1314.

Bombay, September ; Poona, May and October.

96. POLYDESMMA BREVIPALPIS.

Alamis brevipalpis, Walker, xiii. p. 1051.

Poona, June and July ; Bombay, July.

97. BAMRA ACRONYCTOIDES.

Bamra acronyctoides, Moore, Desc. Lep. Col. Atkinson, p. 160 (1882).

HOMOPTERIDÆ.

98. ALAMIS ALBICINCTA.

Alamis albicincta, Guénée, Noct. iii. 4, 1322.

Poona, October.

99. ALAMIS INFLIGENS.

Homoptera infligens, Walker, xiii. 1068.

Bombay, December.

100. PANILLA DISPILA.

Homoptera dispila, Walker, xxxiii. 890.

Poona, December.

101. GIRPA INANGULATA.

Iulodes inangulata, Guénée, Noct. iii. 210, 1612.

Remigia optativa, Walker, xiv. 1510.

Remigia optatura, Walker, xv. 1848.

Poona, June and July.

102. GIRPA FRATERNA.

Girpa fraterna, Moore, Lep. Ceylon, iii. p. 94 (1885).

Poona, June and October.

103. GIRPA PERTENDENS.

Remigia pertendens, Walker, xiv. 1512.

Poona, October.

HYPOGRAMMIDÆ.

104. CALLYNA JUGARIA.

Callyna jugaria, Walker, xv. 1809.

Poona, July and October.

105. CALLYNA SIDERA.

Callyna sidera, Guénée, Noct. i. 113, 178.

Poona, August.

106. SELEPA CELTIS.

Selepa celtis, Moore, Cat. Lep. Mus. E. I. C. ii. 353, pl. ix. a. fig. 9.

Poona, November; Bombay.

107. SELEPA VITEA, n. sp. (Plate XXVII. fig. 17.)

Bombay, October to December; common.

Antennæ grey; palpi, head, and thorax rugose. Wings grey, marked with brown, in some examples with a pinkish tinge: fore wings with the basal half blackish brown, with the outer margin of the black portion edged with pale pinkish white, and with two black lines across the black part, both of them outwardly edged with whitish. The species is very variable. Some specimens have two broad whitish bands across the black half, and others two large whitish patches in it. The second line in the black part runs through the orbicular stigma, and the outer margin of the black part through

the reniform, which is large and ear-shaped ; the outer half of the wing is clouded with grey, with a submarginal sinuous line. Hind wings grey, unmarked ; fringe of both wings pinkish, interrupted with grey.

Expanse of wings $1\frac{8}{10}$ —1 inch.

108. *SELEPA OCCULTA*, n. sp. (Plate XXVII. fig. 11.)

Poona, June.

Pinkish grey ; head with a whitish line on each side above the eyes ; thorax and fore wings marked with brown. Fore wings with the reniform stigma round, large, indistinct ; orbicular small like a dot, hardly visible ; the entire surface of the wing covered with brown streaks and marks, a large white subapical patch margined with brown ; marginal line black, with small blackish-brown streaks in the interspaces, a small black basal streak ; the hinder margin black at the base and towards the hinder angle, with a blackish streak (sometimes a patch) in the interno-median interspace. Hind wings smoky brown ; fringe of both wings pinkish.

Expanse of wings, ♂ $1\frac{1}{10}$ inch, ♀ $1\frac{2}{10}$ inch.

109. *SYMITHA SCEPTICA*, n. sp. (Plate XXVII. fig. 6.)

Bombay, July.

Antennæ, palpi, head, thorax, and fore wings grey ; thorax with a dark line in front and a deep black central line down the upper half of it. Fore wings covered with dark irrorations, with a deep black short streak near the base ; a subcostal black dot near the base, two or three black dots on the disk, some dark grey marks near the apex and near the hinder angle, some submarginal black dots and black marginal points ; abdomen and hind wings whitish : hind wings darker towards the costa and outer margin.

Expanse of wings $1\frac{8}{10}$ inch.

CATEPHIIDÆ.

110. *CATEPHIA LINTEOLA*.

Catephia linteola, Guénée, Noct. iii. 44, 1375.

Bombay.

111. *HYPOSPILA BOLINOIDES*.

Hypospila bolinoides, Guénée, Noct. iii. 358, 1832.

Bombay.

112. *AUCHA NECTENS*.

Triphæna nectens, Walker, xv. 1704.

Bombay.

113. *MOSARA LATERALIS*.

Anophia lateralis, Walker, xxxiii. 917.

Poona, December.

114. *ANOPHIA OLIVESCENS.*

Anophia olivescens, Guénée, Noct. iii. 48, 1379.

Poona, October ; Bombay, October.

A rather variable insect ; the white patch on the fore wings is sometimes large, sometimes small, and often absent, and when present its position varies in almost every specimen.

HYPOCALIDÆ.

115. *HYPOCALA EFFLORESCENS.*

Hypocala efflorescens, Guénée, Noct. iii. 77, 1423.

Bombay.

EREBIIDÆ.

116. *NYCTIPAO CREPUSCULARIS.*

Phalæna-Attacus crepuscularis, Linn. Syst. Nat. 2811, 13.

Belgaum.

117. *ANISONEURA SALEBROSA.*

Anisoneura salebrosa, Guénée, Noct. iii. 161, 1552.

Poona.

OMMATOPHORIDÆ.

118. *PATULA MACROPS.*

Phalæna-Noctua macrops, Linn. Syst. Nat. 225.

Bombay, August to December.

119. *ARGIVA HIEROGLYPHICA.*

♀ *Phalæna (Noctua) hieroglyphica*, Drury, Ins. Exot. ii. 3, pl. 2. fig. 1.

♂ *Noctua Ulula*, Fabr. Sp. Ins. ii. 211, 19.

Belgaum ; Poona, June, August, and October ; Bombay, August to November. Very common in Bombay.

120. *ARGIVA CAPRIMULGUS.*

Noctua caprimulgus, Fabr. Sp. Ins. ii. 210, 6.

Khandalla, March.

121. *SERICIA ANOPS.*

Sericia anops, Guénée, Noct. iii. 173, 1564.

Khandalla, April ; Belgaum.

122. *ENTOMOGRAMMA TORSÆ.*

Entomogramma torsa, Guénée, Noct. iii. 204, 1605.

Poona ; Bombay.

123. *HOMÆA CLATHRUM.*

Homæa clathrum, Walker, xiv. 1334.

Bombay.

124. *SPEIREDONIA RETRAHENS.**Speiredonia retrahens*, Walker, xiv. 1294.

Poona.

125. *SPIRAMIA HELICINA.**Speiredonia helicina*, Hübner, Samml. ex. Schmett. fig. 437.

Belgaum ; Sattara, June and November ; Poona, April, September, and October ; Bombay, August.

126. *HYPOPYRA VESPERTILIO.**Noctua vesperilio*, Fabr. Mant. Ins. ii. 136, 16.

Poona, October.

BENDIDÆ.

127. *HULODES CARANEA.**Phalæna-Noctua caranea*, Cram. Pap. Exot. iii. 140, pl. 269. figs. E, F.

Sattara ; Poona, July ; Bombay, July.

128. *HAMODES ATTACICOLA.**Ophisma attacicola*, Walker, xiv. 1383.

Bombay.

129. *HAMODES DISCISTRIGA.**Hamodes discistriga*, Moore, P. Z. S. 1867, p. 78.

Bombay, September.

OPHIDERIDÆ.

130. *OTHREIS ANCILLA.**Phalæna ancilla*, Cram. Pap. Exot. ii. 84, pl. 149. fig. F.

Sattara, November ; Poona, July ; Bombay, September and October.

131. *OTHREIS CAJETA.**Phalæna-Noctua cajeta*, Cram. Pap. Exot. i. 48, pl. 30. fig. A. Belgaum.132. *OTHREIS FULLONICA.**Phalæna-Noctua fullonica*, Linn. Syst. Nat. 812, 16.

Bombay, September and October.

133. *RHYTIA HYPERMNESTRA.**Phalæna-Noctua hypermnestra*, Cram. Pap. Exot. iv. 69, pl. 323. figs. A, B.

Belgaum ; Poona, November.

134. *ARGADESA MATERNA.**Phalæna-Noctua materna*, Linn. Syst. Nat. ii. 840, 17.

Sattara, November ; Belgaum, September ; Poona, August and October ; Bombay, July and August, October and November.

135. POTAMOPHORA MANLIA.

Phalæna-Noctua manlia, Cram. Pap. Exot. i. 144, pl. 92. fig. A.
Khandalla, December ; Bombay, September.

OPHIUSIDÆ.

136. OPHIODES SEPARANS.

Ophiodes separans, Walker, xiv. 1357.
Sattara, June ; Poona, July ; Bombay, July.

137. OPHIODES TUMIDILINEA.

Ophiusa tumidilinea, Walker, xiv. 1433.
Poona, July ; Bombay, July to November.

138. OPHIODES TRIPHÆNOIDES.

Ophiodes triphænoides, Walker, xiv. 1358.
Khandalla, December ; Bombay, January.

139. LAGOPTERA MAGICA.

Corycia magica, Hübner, Samml. exot. Schmett. iii. 32, 268,
f. 535, 536.

Belgaum ; Poona, July and August ; Bombay, December.
Larvæ feed on *Quisqualis indica*.

140. LAGOPTERA DOTATA.

Noctua dotata, Fabr. Ent. Syst. iii. 2, 55, 153.
Khandalla, December ; Poona, July ; Bombay, August.

141. SPHINGOMORPHA CHLOREA.

Phalæna chlorea, Cram. Pap. Exot. ii. 12, pl. 104. fig. C.
Poona, June, September, and November.

142. SERRODES INARA.

Phalæna inara, Cramer, Pap. Exot. iii. 78, pl. 239. fig. E.
Poona ; Bombay.

143. PSIMADA QUADRIENNIS.

Psimada quadripennis, Walker, xv. 1828.
Bombay, October.

144. ACHÆA MERCATORIA.

Noctua mercatoria, Fabr. Ent. Syst. iii. 262, 175.
Khandalla, December.
Very common.

145. ACHÆA COMBINANS.

Achæa combinans, Walker, xiv. 1392.
Bombay.

146. *ACHÆA MELICERTE*.

Phalæna-Noctua melicerte, Drury, Ins. i. 46, pl. 23. fig. 1.

Belgaum ; Poona, July, August, and November ; Bombay, July to December.

In great plenty in Bombay in July and August. Larvæ feed on *Ricinis communis*, length $2\frac{1}{4}$ inches to $2\frac{1}{2}$ inches ; colour varies much, some are deep purplish black, some reddish, some orange-tinted ; larval stage 21 to 24 days, pupal stage 18 to 21 days. I successfully reared some in Bombay on wild cucumber leaves, not having any castor-oil plants in my garden.

147. *ERCHEIA CYLLOTA*.

Achæa cyllota, Guénée, Noct. iii. 241, 1669.

Bombay, October.

148. *ERCHEIA CYLLARIA*.

Achæa cyllaria, Guénée, Noct. iii. 249, 1670

Bombay, October.

149. *ERCHEIA ZURA*, n. sp.

♂. General colour pale pinkish grey ; collar brown on each side ; tegulæ whitish. Fore wings with the costal, apical, and outer parts suffused with brown, with some darker marks and with two black streaks near the apex ; a deep black stripe extending from the base to the outer margin, at the termination of the second median branch ; the whole space below this stripe of a brownish colour ; marginal line pale pinkish grey ; fringe of the same colour, intercepted with brown and with black streaks opposite the veins ; a black dot in the cell. Hind wings blackish, paler towards the base, a white medial band, and a large white submarginal spot at one third from the anal angle ; fringe white, intermingled with brown near the centre of the margin. Abdomen grey.

Underside white, with a medial and discal black band across both wings.

Expanse of wings 2 inches.

150. *ERCHEIA ZYGIA*, n. sp.

Poona.

♀. General colour pinkish grey, sides of the collar brown, tegula with a thin brown line down its centre ; abdomen grey. Fore wings with the upper part of the wings suffused with blackish brown, the suffusion extending downwards to the centre of the interno-median area, outwards to a little beyond the cell, and expands upwards to the apex ; a large black spot in the interno-median interspace ; two black streaks in the brown part near the apex, and two brown marks near the hinder angle.

Hind wings black, paler towards the abdominal margin, with a slightly interrupted white medial band, a white submarginal spot ; abdominal margin white, and two white places on the margin, one

under the spot and the other subapical; the corresponding portion of the fringe is also pure white, the rest brown, with a pinkish-white marginal line to that portion of the wing. Underside white, with medial and discal black bands on both wings.

Expanse of wings $2\frac{3}{10}$ inches.

This may be the female of the one preceding; but they were taken more than a hundred miles apart from each other, and have many points of great difference.

151. *OPHISMA LÆTABILIS*.

Ophisma lætabilis, Guénée, Noct. iii. 241, 1657.

Poona, July; Bombay, October.

152. *OPHISMA MATURATA*.

Ophisma maturata, Walker, xiv. 1382.

Bombay.

153. *OPHIUSA CRAMERI*.

Ophiusa cramerii, Moore, Lep. Ceylon, iii. p. 177 (1885).

Phalæna achatina, Cram. (nec Sulzer), Pap. Exot. iii. 171, pl. 288. fig. A.

Sattara, September; Khandalla, December; Poona, September; Bombay, July and November.

154. *OPHIUSA OLYMPIA*, n. sp.

Poona, October; Bombay, July and August.

Very common.

Antennæ and palpi grey, head and throat reddish olive-brown; abdomen paler; fore wings with the inner two thirds dark olive-brown, nearly black, with a medial white band, not so broad as in *O. albobitta*, Guénée, and much narrower in the male than in the female; this band is thinly irrorated with red and black atoms; the outer margin of the black part is white and dentated in three places, this is followed by a pale olive-grey space which is margined by an acutely dentated whitish line commencing at the apex with two black marks and coming straight down to the hinder angle; the space between this line and the outer margin is pale grey; marginal line brown, with black points. Hind wing black with an antemedial white band, and a grey space on the outer margin, cut straight from the black, from near the apex to the anal angle; marginal line black; fringe of both wings interlined, purplish-white, grey, and purplish-white.

Expanse of wings $1\frac{9}{10}$ inch.

155. *OPHIUSA ALBIVITTA*.

Ophiusa albivitta, Guénée, Noct. iii. 271, 1707.

Bombay, June and August.

156. *OPHIUSA CONFICIENS*.

Ophiusa conficiens, Walker, xiv. 1432

Bombay.

157. OPHIUSA STUPOSA.

Noctua stuposa, Fabr. Ent. Syst. iii. 2, 42, 112.

Bombay, October.

158. OPHIUSA ARCUATA.

Ophiusa arcuata, Moore, P. Z. S. 1877, p. 609.

Bombay.

159. OPHIUSA JOVIANA.

Phalæna-Noctua joviana, Cram. Pap. Exot. iv. 237, pl. 399. f. B.

Poona, July; Bombay.

160. GRAMMODES AMMONIA.

Phalæna ammonia, Cram. Pap. Exot. iii. 98, pl. 250. f. D.

Ahmednuggur, October; Bombay, September.

161. GRAMMODES MYGDON.

Phalæna mygdon, Cram. Pap. Exot. ii. 94, pl. 156. f. G.

Bombay, October.

162. GRAMMODES STOLIDA.

Noctua stolidus, Fabr. Sp. Ins. iii. 218, 54.

Bombay.

163. PASSIPEDA SATELLITIA.

Passipeda satellitia, Moore, Lep. Ceylon, iii. p. 184, pl. 171. f. 6 (1885).

Belgaum, September; Poona, October; Bombay, August to November.

Very common.

EUCLIDIIDÆ.

164. TRIGONODES HYPPASIA.

Phalæna-Noctua hyppasia, Cram. Pap. Exot. iii. 99, pl. 250. f. E.

Sattara, June; Poona, April to July; Bombay, August to December. Very common.

165. TRIGONODES DISJUNCTA.

Trigonodes disjuncta, Moore, Desc. Lep. Col. Atkinson, ii. p. 171 (1882).

Bombay, August.

166. ACANTHOLIPES AFFINIS.

Docela affinis, Butler, Ann. & Mag. Nat. Hist. ser. 5, vol. v. p. 225 (1880).

Poona, October and November.

REMIGIIDÆ.

167. REMIGIA ARCHESIA.

Phalaena-Noctua archesia, Cram. Pap. Exot. iii. 145, pl. 273. figs. F, G.

Belgaum, September; Poona, August to October; Bombay, September to November. Very common.

168. REMIGIA FRUGALIS.

Noctua frugalis, Fabr. Ent. Syst. iii. 2. 138.

Poona, October, November, and March; Bombay, October, November, and December.

169. REMIGIA QUÆSITA, n. sp. (Plate XXVII. fig. 8.)

Bombay.

♂. Wings narrower than is usual in the genus, outer border oblique; abdomen extending for more than one third beyond the hind wings; antennæ, head, and collar, greyish yellow, thorax and abdomen brown, fore wings reddish brown; a brown diffused streak at end of cell; costa dark brown, a broad brown submarginal band from the costa, near the apex, to the hinder margin, angled inwards in its upper part; the portion of the wing between this band and the outer margin of a dark brownish grey; marginal points black; hind wings cinereous, with a broad blackish marginal band, with a yellowish streak on the margin near the anal angle; fringe of both wings, yellowish, interrupted with brown; underside, wings whitish, with a broad, marginal, blackish, band on both wings, a brown cell-streak on fore wings; body pale yellowish white; legs brown and yellow.

Expanse of wings $1\frac{5}{10}$ inch.

POAPHILIDÆ.

170. POAPHILA SIMPLEX.

Poaphila simplex, Walker, xv. 1840.

Poona, July and December.

THERMESIIDÆ.

171. AZAZIA RUBRICANS.

Ophiusa rubricans, Boisd. Faune Lep. Mad. 106. 11, pl. 16. fig. 1.

Poona, April, July, August, and November; Bombay, September to December.

172. SONAGARA RETICULATA.

Thermesia reticulata, Walker, xxxiii. 1062

Bombay, September and November.

173. SELENIS NIVIAPEX.

Selenis niviapex, Walker, xxxiii. 1069.

Poona, November; Bombay, October.

174. *SELENIS SEMILUX*.*Selenis semilux*, Walker, xxxiii. 1069.

Bombay.

175. *MESTLETA ABRUPTA*.*Mestleta abrupta*, Walker, xxxiii. 830.

Bombay.

176. *DURDARA FENESTRATA*.*Durdara fenestrata*, Moore, P. Z. S. 1883, p. 27, pl. 6. fig. 6.

Bombay, October.

177. *DURDARA ZONULA*, n. sp. (Plate XXVIII. fig. 12.)*Pyralis*

Bombay.

Brown, suffused with yellowish grey, and here and there with pink ; both wings crossed by innumerable dark-brown, very distinct striæ ; fore wings with the costa yellowish, a patch of four semidiaphanous spots below the end of the cell, three in a row, and a large one below, with the upper part partly obscured by a yellowish coloration and a brown line, a diffused pinkish patch above these spots ; below, the ground-colour of the wings is pale yellowish, with the brown striations standing out very distinctly.

Expanse of wings $\frac{9}{10}$ inch.178. *GESOMIA GEMMA*, n. sp.

Poona, September and October. Very plentiful.

Antennæ, palpi, head, and thorax pale reddish yellow ; fore wings in some specimens pinkish grey, in some reddish yellow, irrorated with brown atoms, with antemedial, medial, and postmedial sinuous bands, pale reddish brown ; reniform represented by a brown dot on a pinkish ground ; hind wings pale pinkish testaceous, with a medial pale brown line ; fringe of both wings reddish, interrupted with brown.

This insect varies much in colour ; some are almost pure chrome-yellow, with the markings very faint, some of them invisible ; in others the markings are very distinct ; and the brown irrorations cover the outer part of the wing, giving the wing a brown colour, and altogether altering the appearance of the insect.

Expanse of wings $\frac{9}{10}$ inch.

AMPHIGONIDÆ.

179. *LACERA CAPELLA*.*Lacera capella*, Guénée, Noct. iii. 337, 1802.

Poona ; Bombay, October.

180. *AMPHIGONIA HEPATIZANS*.*Amphigonia hepatizans*, Guénée, Noct. iii. 338, 1805.

Bombay, September.

FOCILIIDÆ.

181. *MATELLA CADUCA*, n. sp. (Plate XXVIII. fig. 9, ♀.)

Poona, July.

Female. Allied to *M. participalis*. Pale dull chrome-yellow; fore part of the thorax slightly reddish; fore wings with the orbicular and reniform marks white, semidiaphanous, thinly outlined with pale brown; the former small, round; the latter larger, elongated and outwardly excavated; lines, brownish, sinuous, an antemedial line on the fore wings, only a postmedial across both wings, also a medial less distinct slightly zigzag line across both wings, passing just in front of the reniform stigma on the fore wing, marginal line slightly waved; underside paler, outer and medial lines well marked, inner line of fore wing absent.

Expanse of wings $1\frac{4}{10}$ inch.182. *DAXATA TANTILLA*, n. sp.

Bombay, September.

Above, antennæ, palpi, head, thorax, and all the wings of a dark uniform brown; abdomen slightly paler, both wings crossed by two much sinuated blackish lines, commencing together about the centre of the hinder margin of the fore wings, gradually separating and terminating on the costa of the fore wings, one before and the other beyond the middle; fore wings with another line submarginal, sinuous, and faintly indicated, beyond which the border of the wing is of a paler colour; costa with black and yellow spots; outer marginal lines of both wings black, minutely denticulated, fringe blackish brown, underside whitish.

Expanse of wings $1\frac{9}{10}$ inch.183. *RHÆSENA OBLIQUIFASCIATA*.*Rhæsenia obliquifasciata*, Moore, Desc. Lep. Coll. Atk. p. 183.

Poona.

PLATYDIDÆ.

184. *EPISPARIS SIGNATA*.*Episparis signata*, Walker, xxxiii. 1032.

Poona; Bombay, November.

HYPENIDÆ.

185. *DICHROMIA OROSIALIS*.

Phalæna-Noctua orosia, Cram. Pap. Exot. iii. 149, pl. 275. fig. D.

Dichromia orosialis, Guénée, Delt. et Pyral. 18, 7.

Poona, July.

186. *DICHROMIA PULLATA*.*Dichromia pullata*, Moore, Lep. Ceylon, iii. p. 221.

Bombay, September.

187. *RIHYNCHINA PERVULGARIS*, n. sp. (Plate XXVIII. fig. 5.)

Poona, September and October; Bombay, October. Common.

Antennæ, palpi, head, thorax, and fore wings greyish white, marked with greyish brown; fore wings mostly greyish brown with a diffuse whitish streak at the base below the cell, an antemedial, a postmedial, and a submarginal, white sinuous line edged with brown; the second line bent outwardly round the large white reniform stigma, many brown and black atoms here and there on the wing, orbicular, represented in some specimens by a black dot, in some it is obsolete; marginal portion of the wing whitish, marginal line black, slightly sinuous; fringe whitish interrupted with dark grey. Hind wings greyish brown, paler towards the base, fringe whitish. Abdomen whitish with grey bands.

Expanse of wings $\frac{8}{10}$ inch.

188. *HYPENA LACERATALIS*.

Hypena laceratalis, Walker, xvi. 60.

Poona, October; Bombay, July to December. A very common insect in Bombay.

189. *HYPENA MOLPUSALIS*.

Hypena molpusalis, Walker, xix. 844.

Bombay, October.

190. *HYPENA MIMICALIS*, n. sp. (Plate XXVIII. fig. 6.)

Poona; Bombay, August.

Antennæ, palpi, head, and thorax reddish; abdomen paler; fore wings reddish grey, thickly covered with brown atoms; veins brown, marginal points dark brown; marginal line pale pinkish. Hind wings greyish, sinuous; marginal line pale pinkish; fringe of both wings interlined—grey, pale pinkish, and grey.

Expanse of wings 1 inch.

191. *HYPENA MANDATALIS*.

Hypena mandatalis, Walker, xvi. 58.

Bombay, July.

192. *HYPENA OBACERALIS*.

Hypena obaceralis, Walker, xvi. 53.

Bombay, October and November.

193. *HYPENA ICONICALIS*.

Hypena iconicalis, Walker, xvi. 61.

Bombay, November.

194. *HYPENA OBSTUPIDALIS*, n. sp. (Plate XXVIII. fig. 7.)

Poona, October.

Allied to *H. ignotalis*, Walker. Of a uniform dark greyish brown. Fore wings with four yellowish-white spots on the costa, near the apex; a black spot in the cell; antemedial, medial, and discal,

partly dentated, sinuous, white lines, inwardly margined with brown; marginal line whitish; marginal points lunular, black, marked on the inside with whitish. Hind wings unmarked, marginal line brown. Under side—fore wings smoky grey, with the four costal subapical spots, and with a larger white subcostal spot, near the apex; hinder margin pale grey: hind wings pale grey, with a brown spot at the end of the cell, and with medial and discal brownish thin bands.

Expanse of wings $1\frac{2}{10}$ inch.

195. *HYPENA SPECULALIS*, n. sp. (Plate XXVIII. fig. 8.)

Bombay, October.

Pale greyish red, dotted and striated with brownish; orbicular represented by a minute white dot margined with brown; a black spot on the hinder margin, near the angle; a whitish postmedial straight line, inwardly margined with grey, commencing on the inner side of the spot; marginal points black: hind wings smoky grey, irrorated and striated like the fore wings, with black marginal points; otherwise unmarked.

Expanse of wings $1\frac{2}{10}$ inch.

Closely allied to *H. obaceralis*, Walker.

196. *HYPENA VECORDIALIS*, n. sp. (Plate XXVIII. fig. 10.)

Bombay.

Reddish grey, covered with brown atoms, some brown marks on the costa; a postmedial, perfectly straight, double black line, some black dots on the space between this line and the outer margin; marginal points black: hind wing unmarked; marginal line brown; fringe of both interlined—grey, pinkish white, and grey.

Expanse of wings $1\frac{2}{10}$ inch.

HERMINIIDÆ.

197. *PASIRA ÆNIGMATICA*, n. sp. (Plate XXVIII. fig. 11.)

Poona, December; Bombay, September.

Palpi and head reddish; antennæ, thorax, and fore wings brown; abdomen testaceous; thorax with a black band in front. Fore wings with black sinuous lines—one subbasal incomplete, one antemedial upright, and a third, very much curved in the disk, and terminating on the hinder margin on the inner side of a deep black spot on the interno-median interspace, with a black dot on the outer side above it; in some examples there is another black dot on the inner side below it, and in some examples there is also a black spot on the hinder margin near the base.

Hind wings testaceous, paler towards the base; marginal line brown; fringe of both wings reddish. The male has a reddish anal tuft.

Expanse of wings $1\frac{2}{10}$ inch.

198. *PASIRA RUSSA*, n. sp. (Plate XXVIII. fig. 13.)

Poona; Bombay, August, September, and October.

Antennæ, palpi, head, thorax, and fore wings pale yellowish fawn-

colour; abdomen whitish testaceous. Thorax with a black line in front. Fore wings with a black spear-shaped mark pointing inwards, on the interno-median interspace, with a black dot on the outside above it; these spots are wanting in some specimens; four brown sinuous lines, the first antemedial, the second medial, almost meeting together on the hinder margin, the second line elbowed outwards, opposite the orbicular stigma, which is represented by a brown dot; third line postmedial, commencing somewhat nearer the second line on the costa, curves widely round the reniform spot, which is small and brown-coloured; this line bends inwardly, with one long tooth, which nearly touches the second line; there is also a submarginal straightish line, which in some specimens is diffused, and in some dotted; marginal points black; fringe yellow.

Hind wings dirty whitish, unmarked.

Expanse of wings $1\frac{2}{10}$ inch.

199. *PASIRA INSCITIA*, n. sp.

Bombay, July and August.

General colour yellowish fawn-colour. Fore wings with four or five deep black spots, two representing the orbicular and reniform marks, one large one in the interno-median interspace, and one, sometimes two, in a straight line above it; all these spots are very prominent; marginal line brown, slightly dentated. Hind wings with faint medial, discal, and submarginal pale brownish thin bands, marginal line brown, slightly dentated.

Expanse of wings 1 inch.

200. *HERMINIA ORTHOSIANA*, n. sp. (Plate XXVIII. fig. 15.)

Bombay.

Pale reddish, covered with brown atoms. Fore wings with the reniform stigma represented by a brown dot on a white ground, lines brown, sinuous, upright, antemedial, medial, postmedial, and discal, rather close together, and edged with pale pinkish on the inner sides; marginal points black, with white lunules on the inner side. Hind wings reddish testaceous, with a brown mark at the end of the cell.

Expanse of wings $1\frac{1}{10}$ inch.

201. *HERMINIA VELIFERA*, n. sp. (Plate XXVIII. fig. 17.)

Poona, October.

Pale pinkish white, powdered with black atoms and marked and streaked with black. The long palpi are nearly covered with black; thorax with a black band in front, and a black mark in the centre; fore wings covered with black and grey irrorations, thickly in the cell, at the end of which is a black spot; a black streak below from the base, running nearly the whole length of the wing; a black streak on the hinder margin, and between these streaks are other black fainter streaks and lines; there are also some submarginal black streaks; fringe brown. Hind wings pinkish grey, the colour formed

by streaks and irrorations, paler in the centre and towards the abdominal margin ; fringe white.

Expanse of wings 1 inch.

202. *HIPOEPA RAPTATALIS*.

Hipoepa raptatalis, Walker, xvi. p. 164, ♂.

Poona.

Female. Antennæ, palpi, head, thorax, and fore wings brown, with a slight reddish tinge ; abdomen testaceous. Fore wings with a large white, distinct reniform spot ; lines brown, sinuous, basal, antemedial, postmedial, and discal ; a medial brownish straight band, which touches the reniform on its inner side ; marginal points black. Hind wings pale brown, with two faint brown lines, medial and discal ; marginal line black ; fringe on both wings interlined—pinkish white, brown, pinkish white, and brown.

Expanse of wings $\frac{9}{10}$ inch.

203. *NODARIA EXTERNALIS*.

Nodaria externalis. Guén. Delt. p. 64.

Poona, November ; Bombay, November and December. Very plentiful. Varies much in size.

204. *CATADA CAPTIOSALIS*.

Catada captiosalis, Walker, xvi. 210.

Poona ; Bombay, October.

205. *LABANDA PAMPHOSALIS*.

Bocana pamphosalis, Walker, xix. 887.

Poona, November and December.

206. *AGINNA CIRCUMSCRIPTA*.

Aginna circumscripta, Walker, xxxiii. 1023.

Poona ; Bombay, September, October, and November.

207. *APPHADANA EVULSALIS*.

Apphadana evulsalis, Walker, xxxiv. 1213.

Bombay, October.

208. *APPHADANA RUSTICULA*, n. sp. (Plate XXVIII. fig. 1.)

Poona, October.

Body and fore wings reddish brown. Head with white lines on each side over the eyes ; thorax with a brown mark in front. Fore wings with two brown spots at the base, three brown costal marks at the commencement of the brown lines ; lines brown, slightly waved, subbasal, medial, postmedial, and discal, two black marks in the disk, each touching both the postmedial and discal lines ; marginal line brown, sinuous ; marginal points black. Hind wings brownish testaceous, blackish towards the outer border, with a postmedial, and a faint indication of a discal line ; marginal line black ; marginal points black : fringe of both wings brown, edged with reddish white.

Expanse of wings 1 inch.

209. APPHADANA RUBICUNDULA, n. sp. (Plate XXVIII. fig. 2.)

Bombay.

Body brown. Fore wings pale pinkish white, with brown lines and bands, and brown atoms on the clear spaces; a basal and a sub-basal upright, sinuous line, the space from the base to the middle of these lines being suffused with brown; a medial diffuse band, with a dentated double line running up it, expanding in the centre, and meeting again on the costa, half the outer dentated line being in the pinkish-white coloured part of the wing; marginal third brown, with a black inner sinuous border; between this border and the medial dentated line is another pale, diffuse, interrupted band; a dark brown zigzag submarginal line, within the brown margin; marginal line brown, sinuous; marginal points black, fringe brown. Hind wings testaceous, with faint brown medial, discal, and submarginal lines; marginal line brown, sinuous; fringe reddish-brown.

Expanse of wings 1 inch.

210. APPHADANA FESTINA, n. sp. (Plate XXVIII. fig. 3.)

Bombay.

Antennæ, palpi, head, thorax, and fore wings brown, hind wings and abdomen paler. Fore wings with subbasal, medial, and post-medial sinuous lines, the last two nearly meeting on the hinder margin near the centre, the first and last line edged with whitish inwardly, the middle line edged with whitish outwardly; hind wings with a discal line and a submarginal shade, brownish; marginal points of both wings black; fringe yellowish; underside smoky grey crossed by several darker lines. This insect is very variable, some examples being much paler than others, and some quite reddish with black marks on the costa, the two outer lines composed of dots with two or three black spots.

Expanse of wings 1 inch.

211. APPHADANA NIGROFUSCA, n. sp. (Plate XXVIII. fig. 4.)

Poona, October.

General colour of body and both wings slaty-brown; thorax with a brown band in front; abdomen with brown segmental bands. Fore wings with a black mark on the hinder margin, at the base a broad black median band, nearly straight on the inner side, sinuous and toothed, and expanded upwards on the outer side, edged outwardly with whitish; two discal sinuous lines, each edged with whitish on the inner side, marginal points black. Hind wings with a faint medial, and a more distinct discal, blackish line, and a broad blackish marginal band; marginal points black; fringe of both wings brown, with pinkish edges.

Expanse of wings $1\frac{1}{10}$ inch.

212. SPADIX VEGETUS, n. sp. (Plate XXVIII. fig. 14.)

Bombay, September and October.

Antennæ black; palpi, head, and thorax reddish brown. Fore wings with the basal third pale reddish brown, remainder of the wings

blackish brown; lines black and sinuous, one basal, the next margining the pale basal part, the third postmedial, inclining towards the second, on the hinder margin; the fourth discal, indistinct, from the hinder angle upright to the costal outer third; the space between the two last lines rather paler than the rest of the black part. Hind wings testaceous. Both wings shining; fringe on both wings pinkish, interrupted with brown.

Expanse of wings $\frac{9}{10}$ inch.

213. *CHUSARIS PUNCTILINEALIS*.

Chusaris punctilinealis, Walker, xxxiv. 1175.

Bombay.

214. *BYTURNA CUCULLATA*.

Byturna cucullata, Moore, Lep. Ceylon, iii. p. 254 (1885).

Poona, September and October; Bombay, September and October.

EXPLANATION OF THE PLATES.

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PLATE XXVIII.

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